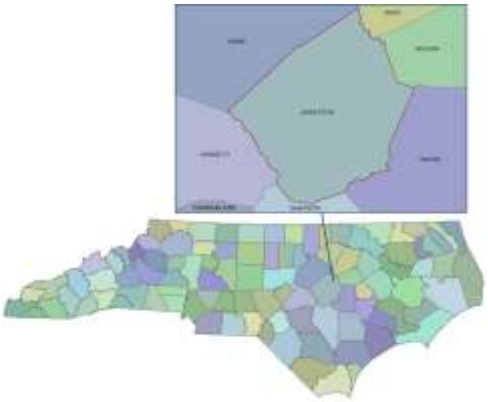

Johnston County

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
1,2-Dibromomethane	13	0.25	0.25	0.25	0.05	µg/L	0	0.00%		
1,2-Dichloropropane	13	0.25	0.25	0.25	5	µg/L	0	0.00%		
Arsenic	1,460	0.5	35	1.6	10	µg/L	10	0.68%		
Barium	262	50	50	50	2,000	µg/L	0	0.00%		
Benzene	13	0.25	0.25	0.25	5	µg/L	0	0.00%		
Cadmium	264	0.5	7.4	0.6	5	µg/L	1	0.38%		
Chromium	263	0.5	460	6.8	100	µg/L	1	0.38%		
cis-1,2-Dichloroethene (c-DCE)	20	0.25	0.25	0.25	70	µg/L	0	0.00%		
Copper	1,461	25	7,430.00	97.10	1,300*	µg/L	16	1.10%		
Ethylbenzene	23	0.25	0.25	0.25	700	µg/L	0	0.00%		
Fluoride	4,555	100	7,840.00	306.50	4,000*	µg/L	3	0.07%		
Iron	1,458	0	155,000.00	1,052.10	300*	µg/L	476	32.65%		
Isopropyl Ether	13	0.25	0.25	0.25	No drinking water standard	µg/L	0			
Lead	1,480	2.5	160	4.1	15	µg/L	42	2.84%		
Magnesium	1,460	10,100	109,800.00	11,578.30	No drinking water standard	µg/L	0			
Manganese	1,460	15	3,170.00	90.10	50*	µg/L	425	29.11%		

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
Mercury	173	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	24	0.25	0.25	0.25	20* (recommended taste and odor threshold)	µg/L	0	0.00%		
Nitrate	675	500	165,000.00	2,800.30	10,000	µg/L	0	0.00%		
Nitrite	683	50	50	50	1,000	µg/L	0	0.00%		
pH	1,463	3.7	12.1	6.60	6.5-8.5*	standard units	8	0.55%	564	38.55%
Selenium	262	2.5	10	2.5	50	µg/L	0	0.00%		
Silver	262	25	25	25	100*	µg/L	0	0.00%		
Sodium	151	1,200	2,000,000.00	31,451.00	No drinking water standard	µg/L	0			
Tetrachloroethylene (PCE)	16	0.25	0.25	0.25	5	µg/L	0	0.00%		
Toluene	15	0.25	0.25	0.25	1,000	µg/L	0	0.00%		
trans-1,2-Dichloroethene (t-DCE)	20	0.25	0.25	0.25	100	µg/L	0	0.00%		
Trichloroethylene (TCE)	20	0.25	0.25	0.25	5	µg/L	0	0.00%		
Vinyl chloride	20	0.25	0.25	0.25	2	µg/L	0	0.00%		
Xylenes (Total)	13	0.25	0.25	0.25	10,000	µg/L	0	0.00%		
Zinc	1,453	25	17,920.00	392.20	5,000*	µg/L	18	1.24%		

* **Secondary MCL**: Secondary contaminants may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.[8] The **Secondary Maximum Contaminant Level (SMCL)** is a non-enforceable standard for secondary contaminants in drinking water. SMCLs may be based upon a contaminant's likelihood to cause changes to the taste, odor, or color of drinking water, or, may be based on the likelihood of the contaminant to cause technical changes such as damage to water fixtures or an increased availability of other contaminants in drinking water.[8]

Tracking and Analyzing Contaminants (TrAC) in Private Well Water in NC

UNC Superfund Research Program- Research Translation Core

Funded by an ARRA supplement from NIEHS (P42-ES005948) 2009-2011